

FIG. 1 PRIOR ART

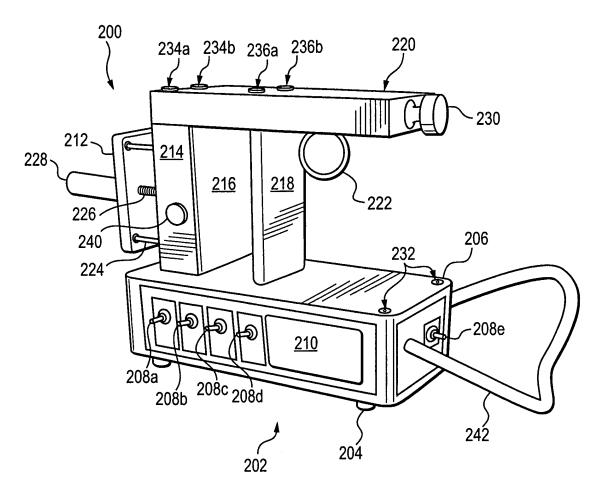


FIG. 2A

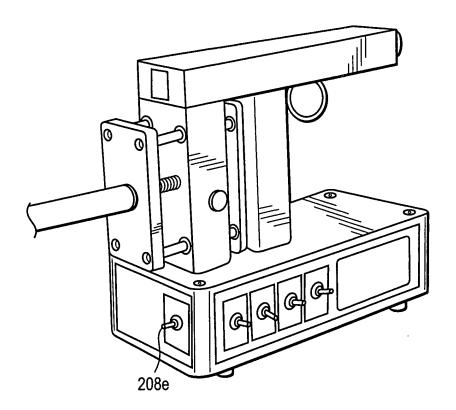


FIG. 2B

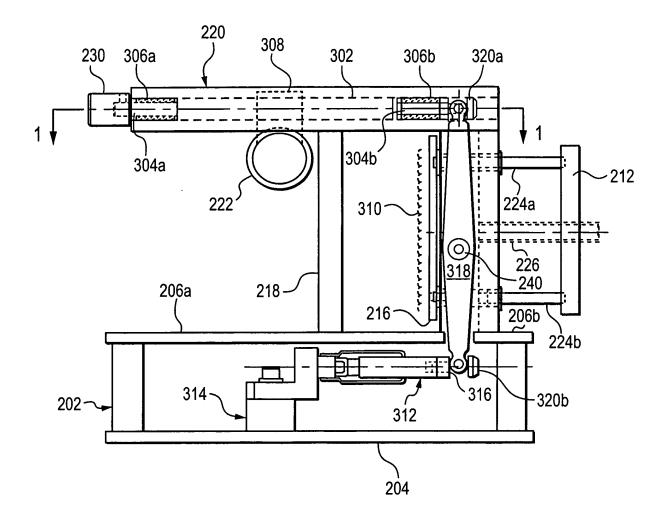
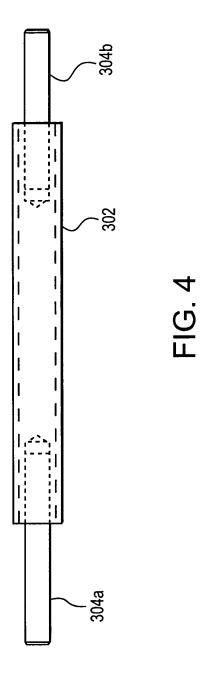


FIG. 3



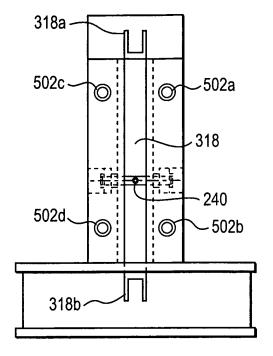


FIG. 5

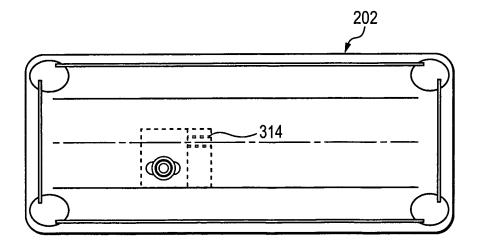


FIG. 6

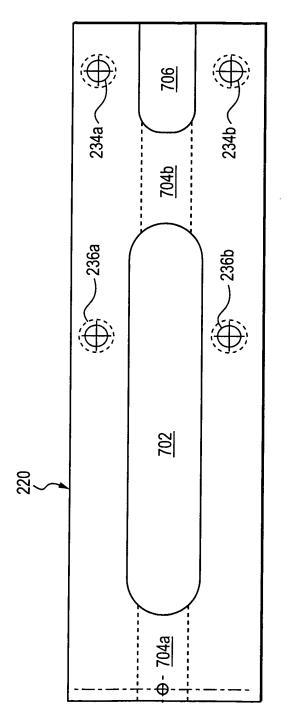
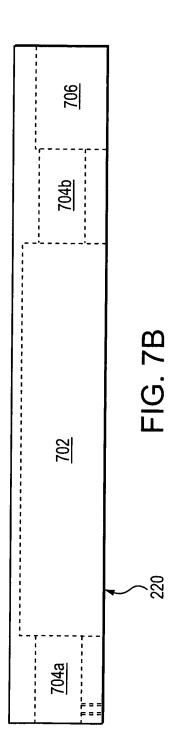
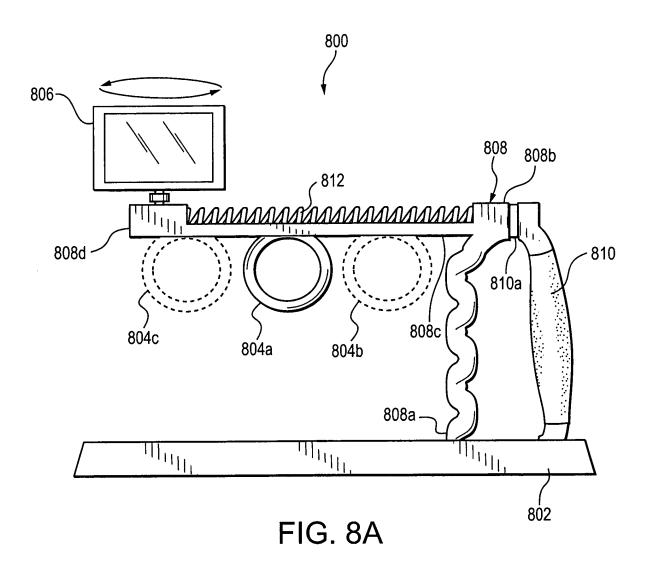
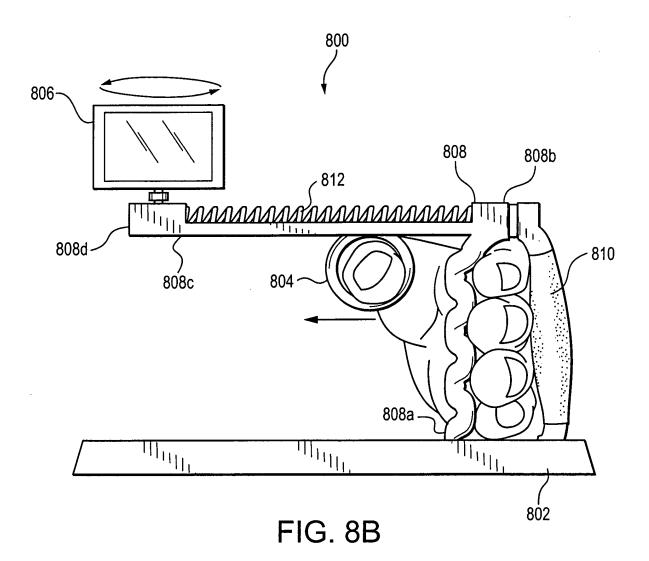


FIG. 7A







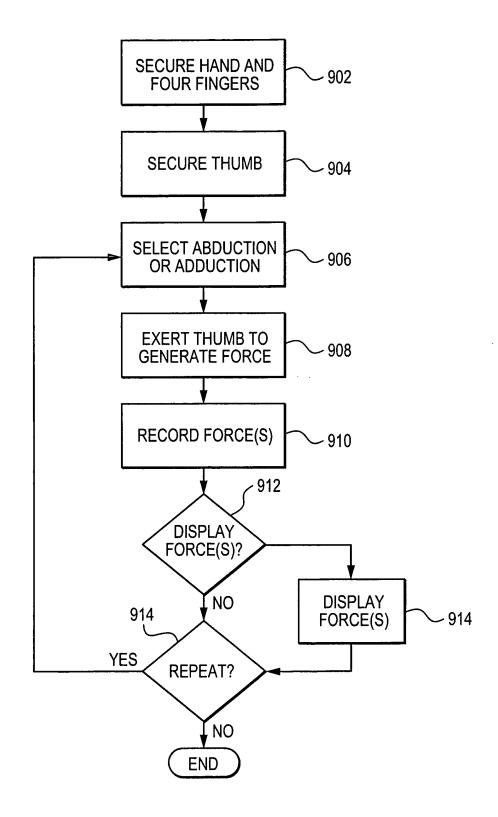
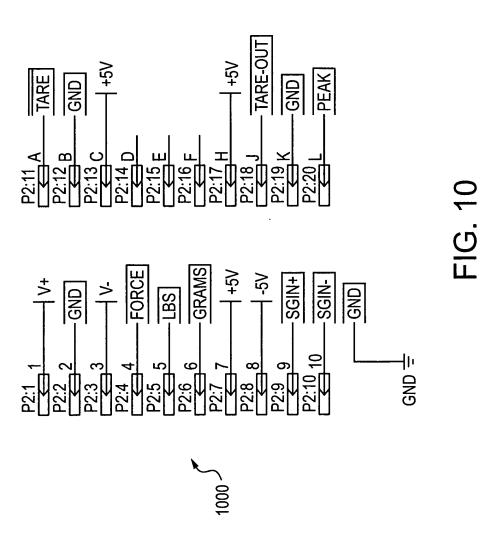
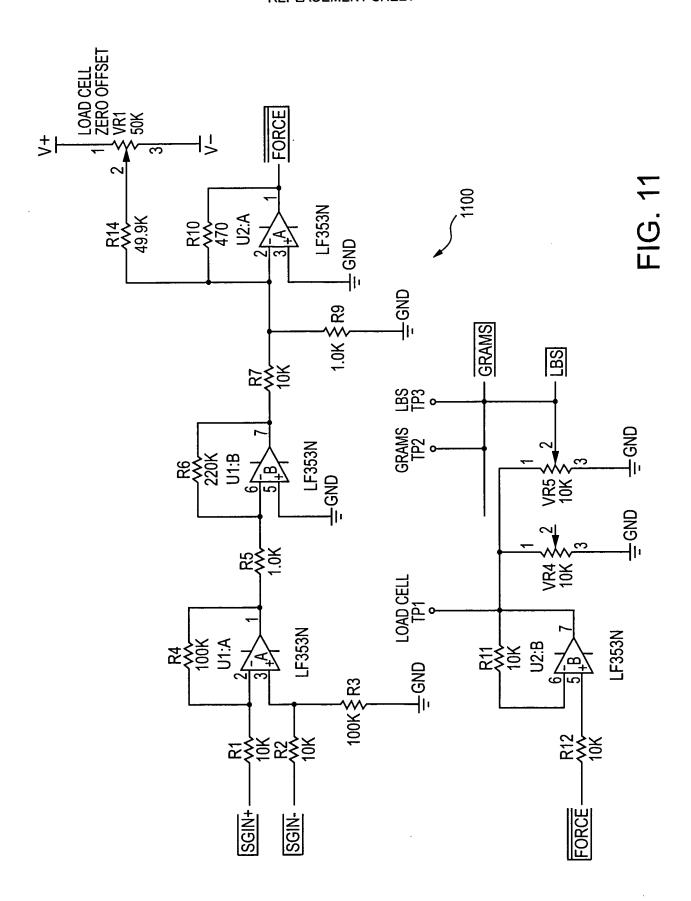


FIG. 9





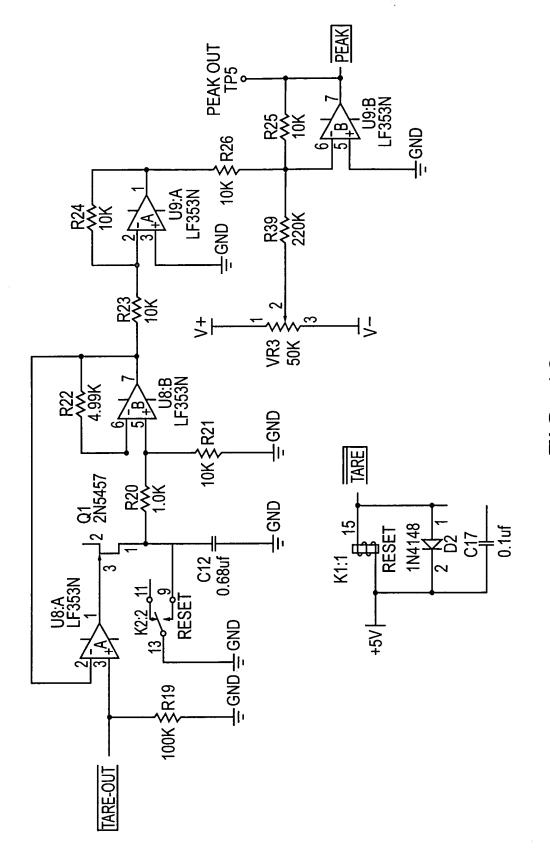


FIG. 12

GND

는 GND

POWER SWITCH

POWER

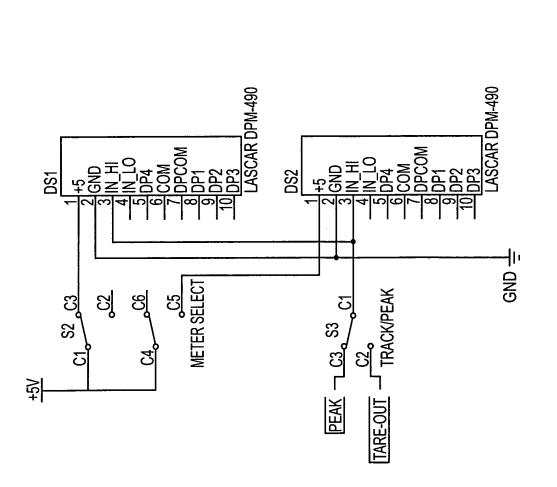


FIG. 14

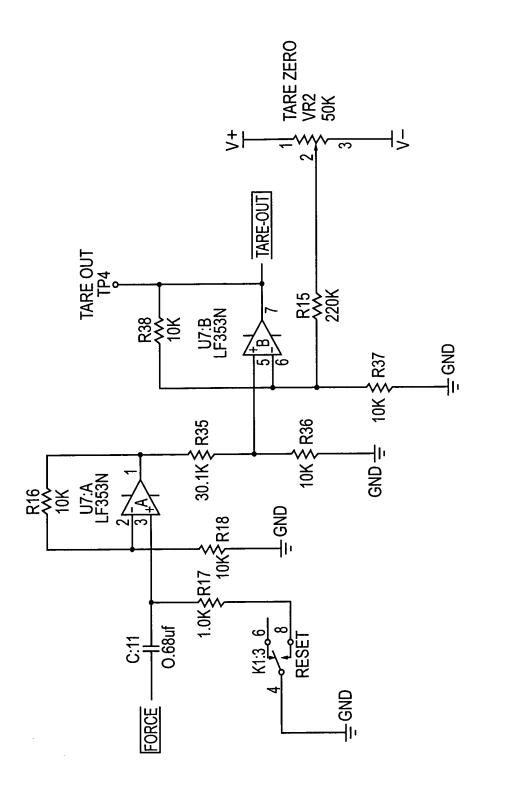


FIG. 15

	7 7		_	-		T
 	TOTAL	222222222222222222222222222222222222222	275	GRAND	TOTAL	4446648844444
CHARACTERISTICS OF SUBJECTS:AGE, WEIGHT, SEX FOR RIGHT DOMINANT MALE-WEIGHT	250-300		က		TOTAL	44848282248822
OR RIGHT	225-249	aum	12		225-249	~ ~ ~ ~ ~ ~
H, SEX F(200-224	αα−4αα≻−αα	32		200-224	Q 4
TS:AGE, WEIGH MALE-WEIGHT	175-199	ო <i>ი</i> 222 თი	66	E-WEIGHT	175-199	27-047 780r E
JECTS:AG	150-174	0989r8479r8	11	FEMALI	150-174	ეოდ4 ⊬ ფ <u>ჯ</u> ღ∞თი <u>∞</u>
S OF SUB	125-149	ೲೲೲೲಀಀಀಀೲೱ	38		125-149	4££&220&4£vv
TERISTIC	100-124	5	12		100-124	45 8 8 8 45
CHARAC	50-99	7	2		50-99	7° 7 37
_		25 TO 29 25 TO 29 25 TO 29 25 TO 29 45 TO 39 45 TO 49 55 TO 59 65 TO 69	TOTAL		AGE	5 TO 9 15 TO 14 25 TO 24 35 TO 29 35 TO 39 45 TO 49 55 TO 59 65 TO 64 65 TO 64

JOINT AGE WEIGHT ABDUCTION-RIGHT

	E WEIGHT AS MALE-WE	JOINT AGE WEIGHT ABDUCTION-RIGHT FEMALE-WEIGHT									
50-99 100-	124 125-1	49 150-174	175-199	200-224	225-249	250-300	50-99	100-124	125-149	150-174	175-199 200-224
2.		4.9 6.0 5.8 4.4 5.1 4.2 4.5	5.3 6.8 6.2 5.7 5.9 4.6 5.2 5.3 5.0 3.5 4.4	5.4 6.7 5.4 6.1 6.8 5.7 4.4	5.4 6.9		1.9	2.5 2.8 3.7 2.2 2.7	2.7 2.7 3.0 3.3 3.1 2.9 2.9 3.3 2.9 1.9 2.5	2.6 3.5 3.1 2.9 2.9 3.0 2.5 3.2 2.7 2.7	3.0 4.0 3.0 2.9 3.1
		ANGLE=							ANG	SLE=30°	
2	2.2 2.6 3.3 4.0 3.8 3.0	4.4 5.4 5.2 3.8 3.8 2.8 3.8 2.9 3.3 3.3	4.4 5.9 5.6 4.8 5.1 3.9 4.8 4.8 4.3 3.1 4.1	4.3 5.8 4.2 5.3 6.4 4.9 3.7	4.7 6.3		1.3	2.0 2.4 3.0 1.7 2.0	2.2 2.3 2.6 2.9 2.4 2.5 2.6 2.4 3.0 2.5 1.5 2.1	2.2 2.8 2.4 2.4 2.6 2.1 2.7 2.5 2.3 3LE=45°	2.4 3.6 2.6 2.5 2.7
		THOLL					ļ				
	2.7 3.0		4.3 5.2 4.3 3.8 3.9 3.1 3.7 3.4 3.1 2.3 3.1	2.8 5.6 2.9 3.8 3.7 4.1 2.8	3.5 4.2		0.8	1.2 1.8 2.3 1.2 1.2	1.7 1.9 2.0 2.0 2.0 1.8 1.7 2.2 1.8 0.8 1.5	2.0 2.2 2.2 1.9 1.8 2.1 1.4 2.2 1.8 1.5	1.7 2.3 1.9 1.7 1.9
		1.5 1.9 2.7 3.0	3.8 2.9 3.8 3.0 3.3 ANGLE=4 1.5 1.9 2.7 3.4 3.0 3.9 3.8 2.9 3.0 2.7 3.4 2.3 3.0 2.7 3.4 2.3 3.0 2.7 3.4	3.8 4.8 4.8 2.9 4.3 3.8 3.3 3.1 3.0 3.3 4.1 ANGLE=45° 1.5 1.9 2.7 3.4 4.3 3.0 3.9 5.2 3.8 4.3 2.9 3.8 3.0 3.9 2.7 3.1 3.4 3.7 3.4 3.7	3.8 4.8 5.3 4.8 6.4 2.9 4.3 3.8 3.3 3.1 4.9 3.0 3.3 4.1 3.7 ANGLE=45° 1.5 1.9 2.7 3.4 4.3 3.0 3.9 5.2 3.8 4.3 2.8 2.9 3.8 2.9 3.8 3.0 3.9 5.6 2.7 3.1 2.9 3.4 3.7 3.8 3.4 3.7 2.3 3.1 3.0 2.5 2.3 4.1 2.2 2.7 3.1 2.8	3.8 4.8 5.3 4.8 6.4 6.3 2.9 4.3 3.8 3.3 3.1 4.9 3.0 3.3 4.1 3.7 ANGLE=45° 1.5 1.9 2.7 3.4 4.3 3.0 3.9 5.2 3.8 4.3 2.8 2.9 3.8 2.9 3.8 2.9 3.8 3.0 3.9 5.6 2.7 3.1 2.9 3.5 3.4 3.7 3.8 3.4 3.7 3.8 3.4 3.7 3.8 3.4 3.7 4.2 2.3 3.1 3.0 2.5 2.3 4.1 2.2 2.7 3.1 2.8	3.8 4.8 5.3 4.8 6.4 6.3 2.9 4.3 3.8 3.3 3.1 4.9 3.0 3.3 4.1 3.7 ANGLE=45° 1.5 1.9 2.7 3.4 4.3 3.0 3.9 5.2 3.8 4.3 2.8 2.9 3.8 2.9 3.8 2.9 3.8 3.0 3.9 5.6 2.7 3.1 2.9 3.5 3.4 3.7 3.8 3.4 3.7 3.8 3.4 3.7 4.2 2.3 3.1 3.0 2.5 2.3 4.1 2.2 2.7 3.1 2.8	3.8	3.8	3.8 4.8 5.3 2.4 3.0 2.5 3.8 3.3 3.1 4.9 3.0 2.5 3.0 3.3 4.1 3.7 2.1 3.0 3.9 5.2 3.8 4.3 2.8 2.9 3.8 2.9 3.8 3.0 3.9 5.6 2.7 3.1 2.9 3.5 3.4 3.7 3.8 3.4 3.7 3.8 3.4 3.7 3.8 3.0 2.5 2.3 4.1 2.2 2.2 2.3 3.1 3.0 3.0 2.5 2.3 4.1 2.8 3.0 2.5 2.3 4.1 2.8 3.0 2.5 2.3 4.1 2.8 3.0 2.5 2.3 4.1 2.8 3.0 2.5 2.3 4.1 2.8 3.0 2.5 2.3 4.1 2.8 3.0 2.5 2.3 4.1 2.8 3.0 2.5 2.3 4.1 2.8 3.0 2.5 2.3 4.1 2.8 3.0 2.5 2.3 4.1 2.8 3.0 2.5 2.3 4.1 2.8 3.0 2.5 2.3 4.1 3.1 3.0 2.8 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	3.8 4.8 5.3 4.8 6.4 6.3 3.0 2.1 2.9 4.3 2.5 2.7 3.0 3.3 4.1 3.7 2.1 2.3 2.3 2.1 2.2 2.3 2.2 2.2 2.2 2.3 2.3 2.3 2.3 2.3

FIG. 17

JOINT AGE WEIGHT ABDUCTION-LEFT

AGE 50-99 5 TO 9 10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54 55 TO 59 60 TO 64 65 TO 69 5 TO 9 10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54	100-124 2.3	125-149	450 474	JOINT AGE WEIGHT ABDUCTION-LEFT MALE-WEIGHT									
10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54 55 TO 59 60 TO 64 65 TO 69 5 TO 9 10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54	23		100-1/4	175-199	200-224	225-249	250-300	50-99	100-124	125-149	150-174	175-199 200-224	
10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54	20	2.7 3.4 3.9 3.5 3.0	4.7 5.0 5.5 3.8 4.5 3.2 4.5 3.3 3.3	5.5 6.5 5.7 5.4 5.5 4.3 4.7 4.6 4.0 3.0	8.4 6.0 5.1 5.5 5.8 5.0 4.1	4.3 6.0		1.6	2.4 2.6 3.2 2.2	2.6 2.4 2.5 2.7 2.6 2.7 2.2 2.6 1.9 2.3 1.7	2.3 2.9 3.0 2.9 2.6 2.6 2.2 2.7 2.3 2.3	2.2 3.9 3.0 2.5 3.0	
10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54	ANGLE=30°									ANG	SLE=30°		
55 TO 59 60 TO 64 65 TO 69	2.0	2.1 2.5 3.4 3.1 2.6	4.2 4.3 4.9 3.1 3.9 2.7 3.2 2.8 3.0 2.8	4.3 4.6 5.1 4.5 4.8 3.5 4.0 4.1 3.8 2.4 3.0	5.4 5.4 4.2 4.7 4.8 4.4 3.4	4.0 5.5		1.3	2.0 2.5 2.2 1.7 2.0	2.5 2.0 2.2 2.6 2.4 2.5 1.8 2.2 2.0 2.0 1.2	1.7 2.6 2.7 2.0 1.9 2.3 2.0 2.3 2.0 2.0 5LE=45°	2.0 3.2 2.6 2.0 2.5	
5 TO 9			ANGLE=	15°							SLE=45°		
10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54 55 TO 59 60 TO 64 65 TO 69	1.4	1.6 2.3 2.9 2.8 1.7	3.2 3.3 3.6 2.6 2.7 2.0 3.2 2.0 2.3 2.2	3.5 3.7 4.2 3.9 3.5 2.9 2.8 3.0 2.9 1.8 2.1	3.2 4.8 3.1 3.5 3.8 3.5 2.7	3.1 4.4		0.9	1.2 2.0 1.8 1.1 1.2	1.6 1.5 1.9 1.7 1.8 1.2 1.6 1.5 0.8 1.2	1.2 1.9 1.8 1.4 1.6 1.7 1.5 1.5 1.5	1.7 2.7 1.9 1.5 1.9	

FIG. 18

JOINT AGE WEIGHT ADDUCTION-RIGHT

		JOI		/EIGHT AI MALE-WE		N-RIGHT	•		JOINT AGE WEIGHT ADDUCTION-RIGHT FEMALE-WEIGHT				
AGE	50-99	100-124	125-149	150-174	175-199	200-224	225-249	250-300	50-99	100-124	125-149	150-174	175-199 200-224
5 TO 9 10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54 55 TO 59 60 TO 64 65 TO 69		11.8	12.8 14.3 15.2 12.9 12.6	16.2 17.4 17.8 17.4 18.5 17.1 15.3 14.3 13.8 13.4	16.4 18.5 19.7 17.4 16.9 16.0 17.1 16.5 16.1 12.4 15.5	20.8 19.2 20.9 18.2 17.3 16.3 13.1	18.0 15.6		10.9	10.7 11.0 13.2 10.8 12.0	11.9 13.5 14.4 15.2 12.9 14.1 13.7 12.0 13.1 13.5 12.0 11.0	14.0 16.0 16.4 14.4 12.9 14.8 13.8 16.2 13.0 12.3	16.2 12.2 15.6 13.3 14.1
				ANGLE=3	30°				r		ANG	SLE=30°	
5 TO 9 10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54 55 TO 59 60 TO 64 65 TO 69		11.9	13.3 15.9 18.0 12.4 13.5	18.0 18.4 19.1 19.4 20.7 17.5 16.9 14.6 15.6 14.6 ANGLE=4	18.6 20.7 21.3 18.8 18.4 16.2 19.1 18.2 17.5 13.6 16.5	20.9 19.2 19.9 19.4 18.9 17.1 15.4	20.4 16.9		11.9	11.3 12.7 14.9 11.6	12.8 15.0 15.1 16.6 14.2 14.9 14.5 13.4 15.7 15.1 11.9 12.7	15.2 17.8 17.4 15.7 13.7 16.1 15.1 16.9 14.9 12.8 6LE=45°	17.2 15.4 17.5 14.7 15.1
5 TO 9 10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54 55 TO 59 60 TO 64 65 TO 69		13.2	14.2 17.5 20.3 14.2 14.8	19.3 20.5 21.2 20.3 21.8 20.7 18.5 15.4 16.1 15.8 ANGLE=6	19.1 21.7 22.2 20.9 20.3 18.1 20.5 20.3 18.8 15.2 17.6	22.1 20.3 22.1 21.1 21.1 19.1 16.4	21.2 19.0		12.5	13.2 13.4 15.8 12.3 14.1	14.2 16.0 16.7 18.4 15.0 17.1 16.8 14.4 15.5 15.7 12.7	14.9 18.9 19.3 17.1 14.6 15.8 17.6 15.6 14.3	15.7 14.4 17.9 15.8 16.0

FIG. 19

JOINT AGE WEIGHT ADDUCTION-LEFT

		JO	NT AGE W	/EIGHT AI MALE-WE		N-LEFT			JOINT AGE WEIGHT ADDUCTION-LEFT FEMALE-WEIGHT				
AGE	50-99	100-124	125-149	150-174	175-199	200-224	225-249	250-300	50-99	100-124	125-149	150-174	175-199 200-224
5 TO 9 10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54 55 TO 59 60 TO 64 65 TO 69		10.8	12.5 13.9 15.0	16.3 16.7 17.2 17.3 19.5 14.5 15.6 12.4 13.5 13.3	19.0 17.0 18.9 16.8 16.5 15.7 17.2 15.4 11.6 14.3	14.4 17.8 18.9 17.9 16.3 16.2 14.7	17.9 15.3		10.1	10.2 11.5 12.7 12.1 12.2	12.4 12.4 13.4 13.9 12.1 13.2 12.3 10.5 12.7 13.1 11.1	12.7 14.6 15.6 14.4 12.2 14.0 12.7 14.4 12.7	16.0 13.2 13.5 12.8 12.9
00 / 0 00				ANGLE=3								LE=30°	
5 TO 9 10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54 55 TO 59 60 TO 64 65 TO 69		12.1	13.4 15.8 16.3 11.2 13.3	18.1 18.3 18.7 17.0 20.7 14.2 15.7 13.6 15.1 14.4 ANGLE=4	20.9 19.8 21.0 18.1 18.8 15.8 17.8 18.5 17.6 13.2 16.0	20.6 18.2 18.5 18.3 17.3 16.5 16.8	17.8 16.6		11.3	10.2 10.8 13.7 11.9	12.9 13.4 14.4 15.2 13.8 14.6 12.5 11.1 15.1 14.7 12.1 12.6 ANG	14.1 17.2 16.9 16.5 12.1 13.5 14.5 13.9 13.2	18.4 13.7 15.8 15.1 14.3
5 TO 9 10 TO 14 15 TO 19 20 TO 24 25 TO 29 30 TO 34 35 TO 39 40 TO 44 45 TO 49 50 TO 54 55 TO 59 60 TO 64 65 TO 69		12.4	14.5 17.1 17.7	19.2 20.7 20.1 18.6 21.3 16.1 17.4 15.3 15.6 15.1 ANGLE=6	20.3 20.9 22.3 19.7 20.2 17.3 20.2 20.1 19.2 14.4 17.9	21.8 20.3 21.0 20.9 20.1 18.7 17.2	19.0 18.4		11.6	10.8 11.6 14.7 11.8 12.8	13.8 15.4 15.7 16.5 13.9 15.2 13.6 12.8 16.0 16.0 13.3 13.6	14.9 18.3 18.4 15.7 13.2 16.3 14.6 15.8 14.4 LE=60°	16.8 14.3 18.7 16.5 15.0

FIG. 20

GRIP STRENGTH BY AGE AND WEIGHT FOR MALE AND FEMALE LEFT AND RIGHT

77/73 71/66 75/69
75/72 65/61 72/70 70/68 69/65
68/64 66/65 69/64 58/54 66/59
45 TO 49 50 TO 54 55 TO 59 60 TO 64 65 TO 69
5 TO 49 68/64

FIG. 21

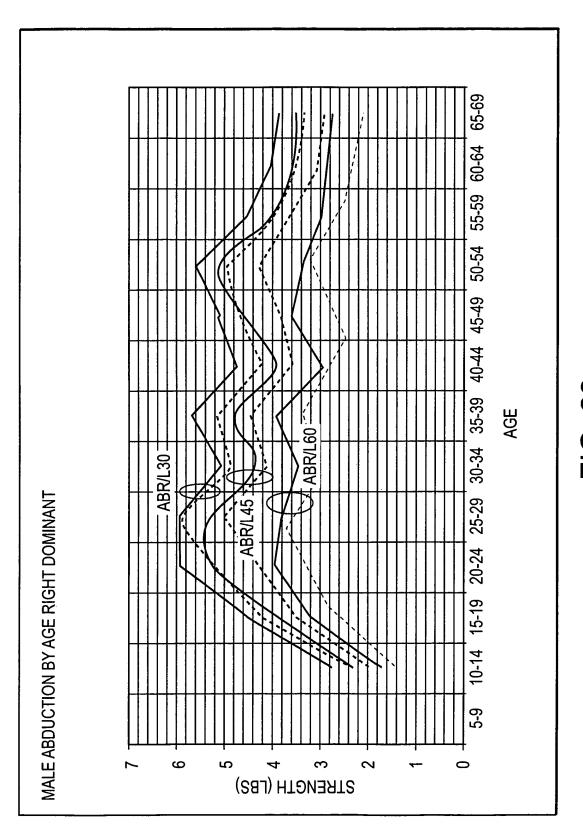


FIG. 22

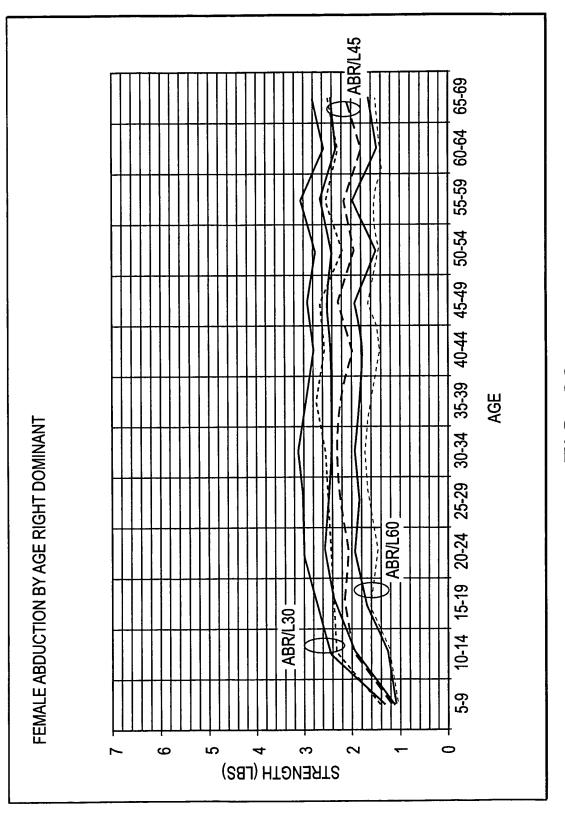


FIG. 23

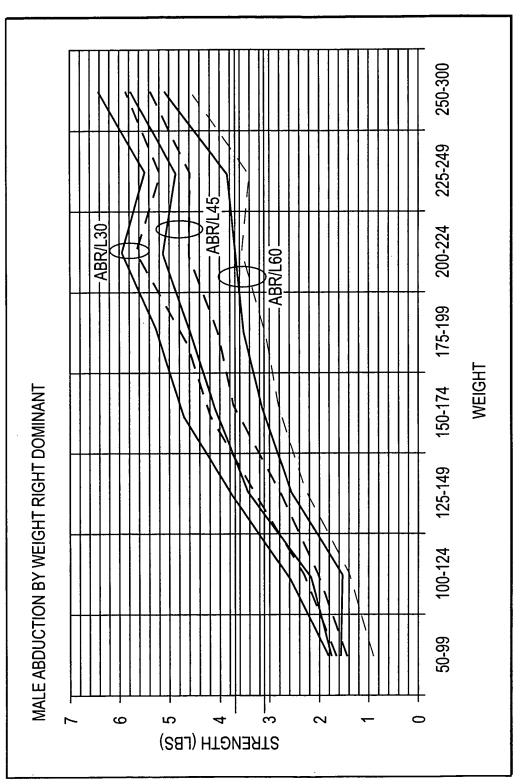


FIG. 24

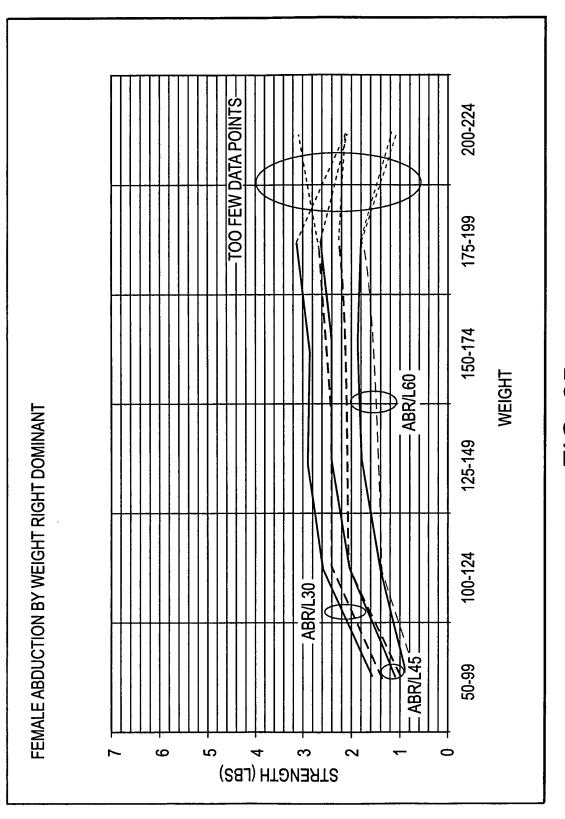


FIG. 25

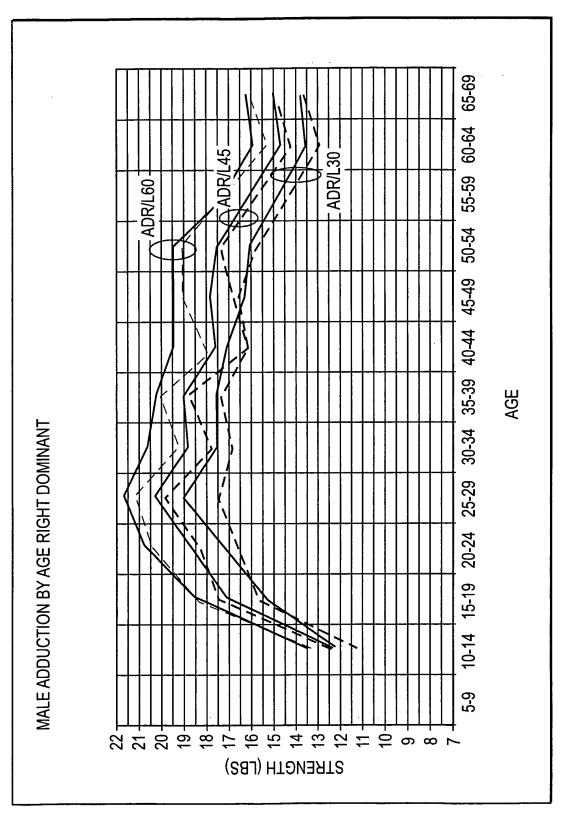


FIG. 26

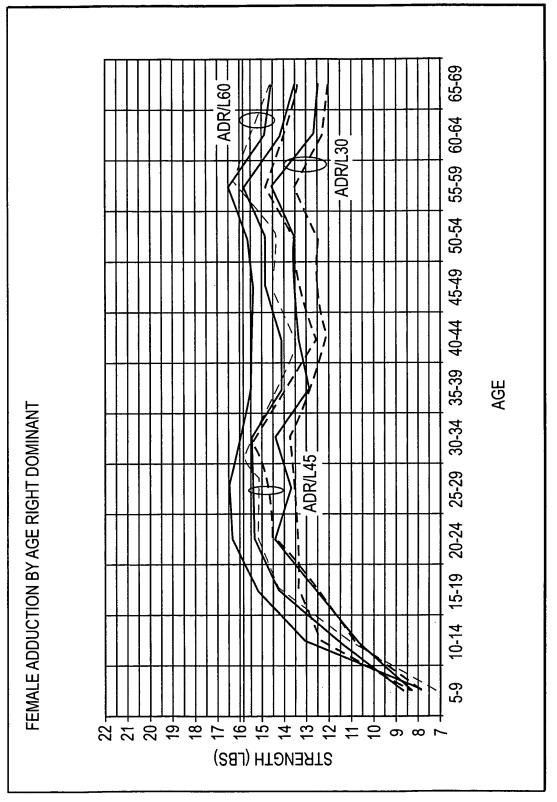


FIG. 27

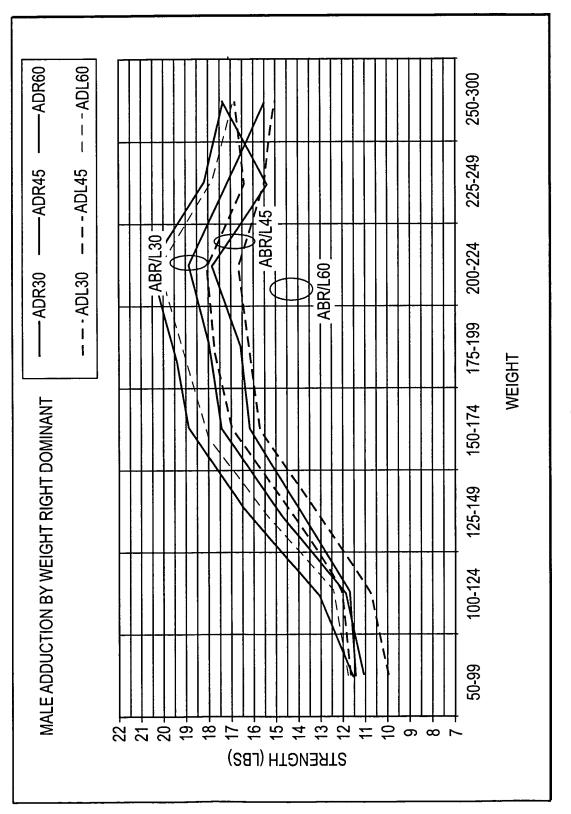


FIG. 28

FIG. 29

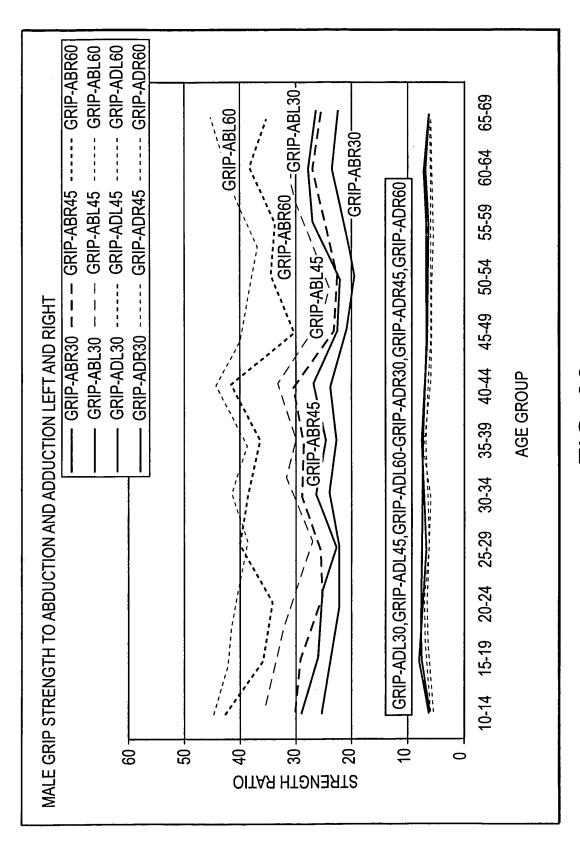


FIG. 30

FIG. 31